



## 2004 Affymetrix User Group Meetings

PRODUCTS **ANALYSIS** SUPPORT | TECHNOLOGY | RESEARCH COMMUNITY | CORPORATE

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→ UCSC Query

Genotyping  
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→ Standard Query  
→ Batch Query  
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→ (1)All Descriptions (M12625\_at)  
→ (1)All Descriptions (U23752\_at)  
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### Full Record

#### Details for HUGENEFL:M12625\_AT

##### Full Screen

NetAffx Links [Cluster Members](#)  
[Consensus/Exemplar](#)

#### GeneChip Array Information

Probe Set ID M12625\_at

GeneChip Array HumanGeneFL Array

Organism Common Name Human

#### Probe Design Information

Transcript ID M12625

Sequence Type Exemplar sequence

Representative Public ID M12625 NCBI

Target Description M12625, class B, 20 probes, 13 in M12625mRNA 893-1259: 7 in reverseSequence, 1599-1683, Human lecithin-cholesterol acyltransferase mRNA, complete cds, with 5' and 3' flanking DNA sequences

#### Genomic Alignment of Target Sequence

Assembly April 2003 (NCBI 33)

Position	% Identity	Cytoband
chr16: 67749925-67750484 (-) <a href="#">UCSC</a>	100	q22.1

Overlapping Transcripts	Representative Transcript	UniGene Description	Position
M12625 NCBI	lecithin-cholesterol acyltransferase		chr16:67749888-67754507 (-) <a href="#">UCSC</a>

#### Public Domain and Genome References

Gene Title lecithin-cholesterol acyltransferase

Gene Symbol LCAT [HGNC](#)

Chromosomal Location 16q22.1

UniGene ID Hs.387239 [NCBI](#) (FULL LENGTH)

Ensembl ENSG00000103080 [Ensembl](#)

LocusLink 3931 [NCBI](#)

SwissProt AAP88750 [EMBL-EBI](#)  
P04180 [EMBL-EBI](#)

EC 2.3.1.43

OMIM 606967 [NCBI](#)

RefSeq	Protein ID	NP_000220 <a href="#">NCBI</a>
RefSeq	RefSeq Transcript ID	RefSeq Title

NM\_000229 [NCBI](#) lecithin-cholesterol acyltransferase precursor

### Functional Annotations

	ID	Title	Organism	Type
Ortholog	<a href="#">MG-U74AV2:103023_AT</a>	lecithin cholesterol acyltransferase	Mouse	Curated Ortholog
	<a href="#">MG-U74AV2:161759_R_AT</a>	lecithin cholesterol acyltransferase	Mouse	Curated Ortholog
	<a href="#">MOE430A:1417043_AT</a>	lecithin cholesterol acyltransferase	Mouse	Curated Ortholog
	<a href="#">MU11KSUBA:J05154_S_AT</a>	lecithin cholesterol acyltransferase	Mouse	Curated Ortholog
	<a href="#">RAE230A:1367887_AT</a>	lecithin cholesterol acyltransferase	Rat	Curated Ortholog
	<a href="#">RG-U34A:X54096_AT</a>	lecithin cholesterol acyltransferase	Rat	Curated Ortholog
	<a href="#">MOUSE430_2:1417043_AT</a>	lecithin cholesterol acyltransferase	Mouse	Curated Ortholog
	<a href="#">MOUSE430A_2:1417043_AT</a>	lecithin cholesterol acyltransferase	Mouse	Curated Ortholog

### GO Biological Process (view graph)

ID	Description	Evidence	Links
6629	lipid metabolism	inferred from electronic annotation	<a href="#">QuickGO</a> <a href="#">AmiGO</a>

### GO Cellular Component (view graph)

ID	Description	Evidence	Links
5576	extracellular	not recorded	<a href="#">QuickGO</a> <a href="#">AmiGO</a>

### Gene Ontology

#### GO Molecular Function (view graph)

ID	Description	Evidence	Links
4607	phosphatidylcholine-sterol O-acyltransferase activity	inferred from electronic annotation	<a href="#">QuickGO</a> <a href="#">AmiGO</a>
8415	acyltransferase activity	inferred from electronic annotation	<a href="#">QuickGO</a> <a href="#">AmiGO</a>
16740	transferase activity	inferred from electronic annotation	<a href="#">QuickGO</a> <a href="#">AmiGO</a>

	Method	ID	Description	E-Value
Protein Similarities	blast	32879837		0.0
Protein Similarities	blast	4557892	lecithin-cholesterol acyltransferase precursor [Homo sapiens]	0.0

	Method	ID	Description	E-Value
Protein Families	ec	<a href="#">LCAT_HUMAN</a>	LCAT_HUMAN EC:2.3.1.43:PHOSPHATIDYLCHOLINE-STEROL ACYLTRANSFERASE PRECURSOR (EC 2.3.1.43) (LECITHIN-CHOLESTEROL ACYLTRANSFERASE) (PHOSPHOLIPID-CHOLESTEROL ACYLTRANSFERASE).	1.85E-171

Database	ID	Description	E-Value

Protein Domains	scop	<u>d1tca_</u>	d1tca_ SCOP:c.69.1.17:1	Triacylglycerol lipase	5.3E-8																																																																																																									
	pfam	<u>LAET</u>	Lecithin:cholesterol acyltransferase		1.7E-182																																																																																																									
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<table border="1"> <thead> <tr> <th>Probe Sequence(5'-3')</th> <th>Probe X</th> <th>Probe Y</th> <th>Probe Interrogation Position</th> <th>Strandedness</th> </tr> </thead> <tbody> <tr><td>CTTCAACTACACAGGCCGTGACTTC</td><td>152</td><td>127</td><td>1161</td><td>Antisense</td></tr> <tr><td>CTACACAGGCCGTGACTTCCAACGC</td><td>153</td><td>127</td><td>1167</td><td>Antisense</td></tr> <tr><td>CCAACGCTTCTTGCAGACCTGCAC</td><td>154</td><td>127</td><td>1185</td><td>Antisense</td></tr> <tr><td>CCTGCACTTGAGGAAGGCTGGTAC</td><td>155</td><td>127</td><td>1203</td><td>Antisense</td></tr> <tr><td>CATGTGGCTGCAGTCACGTGACCTC</td><td>156</td><td>127</td><td>1227</td><td>Antisense</td></tr> <tr><td>GCTGCAGTCACGTGACCTCCTGGCA</td><td>157</td><td>127</td><td>1233</td><td>Antisense</td></tr> <tr><td>CCTGGCAGGACTCCCAGCACCTGGT</td><td>158</td><td>127</td><td>1251</td><td>Antisense</td></tr> <tr><td>GGACCCCTGTGGGTGTGCTCTATGAG</td><td>159</td><td>127</td><td>1353</td><td>Antisense</td></tr> <tr><td>TGTGCTCTATGAGGATGGTGATGAC</td><td>160</td><td>127</td><td>1365</td><td>Antisense</td></tr> <tr><td>GGCGACCCGCAGCACCGAGCTCTGT</td><td>161</td><td>127</td><td>1395</td><td>Antisense</td></tr> <tr><td>CCTGACCCCTGGAGCACATCAATGCC</td><td>162</td><td>127</td><td>1503</td><td>Antisense</td></tr> <tr><td>GCACATCAATGCCATCCTGCTGGGT</td><td>163</td><td>127</td><td>1515</td><td>Antisense</td></tr> <tr><td>CATCCTGCTGGGTGCCTACCGCCAG</td><td>164</td><td>127</td><td>1527</td><td>Antisense</td></tr> <tr><td>CTTGCTACCGTAAGCCCTGATGGC</td><td>165</td><td>127</td><td>1611</td><td>Antisense</td></tr> <tr><td>TACCGTAAGCCCTGATGGCTATGTT</td><td>166</td><td>127</td><td>1617</td><td>Antisense</td></tr> <tr><td>AAGCCCTGATGGCTATGTTTCAAGGT</td><td>167</td><td>127</td><td>1623</td><td>Antisense</td></tr> <tr><td>CTATGTTTCAAGGTGAAGGGAGGCA</td><td>168</td><td>127</td><td>1635</td><td>Antisense</td></tr> <tr><td>GGAGGCAGTACAGTCCCACACTAGG</td><td>169</td><td>127</td><td>1653</td><td>Antisense</td></tr> <tr><td>GTCCCCACACTAGGTTCACTCCTCA</td><td>170</td><td>127</td><td>1665</td><td>Antisense</td></tr> <tr><td>CACAGGCTCAGTGCTGTGCAGTG</td><td>171</td><td>127</td><td>1695</td><td>Antisense</td></tr> </tbody> </table>						Probe Sequence(5'-3')	Probe X	Probe Y	Probe Interrogation Position	Strandedness	CTTCAACTACACAGGCCGTGACTTC	152	127	1161	Antisense	CTACACAGGCCGTGACTTCCAACGC	153	127	1167	Antisense	CCAACGCTTCTTGCAGACCTGCAC	154	127	1185	Antisense	CCTGCACTTGAGGAAGGCTGGTAC	155	127	1203	Antisense	CATGTGGCTGCAGTCACGTGACCTC	156	127	1227	Antisense	GCTGCAGTCACGTGACCTCCTGGCA	157	127	1233	Antisense	CCTGGCAGGACTCCCAGCACCTGGT	158	127	1251	Antisense	GGACCCCTGTGGGTGTGCTCTATGAG	159	127	1353	Antisense	TGTGCTCTATGAGGATGGTGATGAC	160	127	1365	Antisense	GGCGACCCGCAGCACCGAGCTCTGT	161	127	1395	Antisense	CCTGACCCCTGGAGCACATCAATGCC	162	127	1503	Antisense	GCACATCAATGCCATCCTGCTGGGT	163	127	1515	Antisense	CATCCTGCTGGGTGCCTACCGCCAG	164	127	1527	Antisense	CTTGCTACCGTAAGCCCTGATGGC	165	127	1611	Antisense	TACCGTAAGCCCTGATGGCTATGTT	166	127	1617	Antisense	AAGCCCTGATGGCTATGTTTCAAGGT	167	127	1623	Antisense	CTATGTTTCAAGGTGAAGGGAGGCA	168	127	1635	Antisense	GGAGGCAGTACAGTCCCACACTAGG	169	127	1653	Antisense	GTCCCCACACTAGGTTCACTCCTCA	170	127	1665	Antisense	CACAGGCTCAGTGCTGTGCAGTG	171	127	1695	Antisense
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